

Appl. No. Unassigned; Docket No. GB02 0084 US
Amdt. dated April 12, 2006
Preliminary Amendment

Amendments to the Claims

1. *(Currently Amended)* A display device comprising an array ~~(40)~~ of pixels and row and column driver circuitry comprising row driver circuit portions ~~(R)~~ and column driver circuit portions ~~(C)~~, each pixel being addressed by a row driver circuit portion ~~(R)~~ and a column driver circuit portion ~~(C)~~ which connect to respective row and column conductor lines, the array of pixels having a non-rectangular outer shape ~~(40)~~, wherein the device comprises at least three row driver circuit portions ~~(R)~~ and at least three column driver circuit portions ~~(C)~~ disposed around the outer periphery of the array, wherein the row and column driver circuit portions alternate around the outer periphery.

2. *(Currently Amended)* A device as claimed in claim 1, wherein transitions between pairs of adjacent row and column driver circuit portions are at first locations ~~(42)~~ of the outer periphery where the tangent to the outer shape ~~(40)~~ is parallel to the row or column conductor lines.

3. *(Currently Amended)* A device as claimed in claim 2, wherein one or more transitions between pairs of adjacent row and column driver circuit portions are at second locations ~~(44,48)~~ of the outer periphery across the array of pixels in a row or a column direction from a first location ~~(42)~~.

4. *(Currently Amended)* A device as claimed in claim 3, wherein one or more further transitions between pairs of adjacent row and column driver circuit portions are at third ~~(46,50)~~ and subsequent locations, if any, of the outer periphery across the array of pixels in a row or a column direction from a second location ~~(44)~~ and subsequent locations which do not correspond to other transitions.

5. *(Currently Amended)* A device as claimed in ~~any preceding claim~~ claim 1, wherein the row and column driver circuit portions extend around the full periphery ~~(40)~~ of the array of pixels.

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6. *(Currently Amended)* A device as claimed in ~~any one of claims 1 to 4~~claim 1, wherein at least one gap ~~(70a, 70b)~~ is provided in the row and column driver circuit portions around the periphery of the array of pixels, the gap comprising a region of the outer periphery which is substantially linear and parallel to the row or column conductor lines.

7. *(Currently Amended)* A device as claimed in ~~any one of claims 2 to 4~~claim 2, wherein at least one gap is provided in the row and column driver circuit portions around the periphery of the array of pixels, the gap comprising a region of the outer periphery which is between first locations ~~(80, 82)~~ which are points of inflection.

8. *(Currently Amended)* A device as claimed in ~~any preceding claim~~claim 1, wherein the array of pixels has symmetry about at least one of the row and column directions.

9. *(Currently Amended)* A device as claimed in ~~any preceding claim~~claim 1, wherein each row driver circuit portion ~~(R)~~ includes means for detecting a signal from another row driver circuit portion.

10. *(Original)* A device as claimed in claim 9, wherein the means for detecting a signal is coupled to a row conductor associated with the another row driver portion, such that each row driver circuit portion can detect a signal on at least one row conductor of at least one other row driver circuit portion.

11. *(Currently Amended)* A method of determining the positioning of row driver circuit portions and column driver circuit portions around the periphery of an array of pixels of a display device, the device comprising pixels each to be addressed by a row driver circuit portion and a column driver circuit portion which connect to respective row and column conductor lines and the array of pixels having a non-rectangular outer shape, wherein the method comprises:

identifying first locations ~~(42)~~ of the outer periphery where the tangent to the outer shape is parallel to the row or column conductor lines;

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identifying second locations ~~(44,48)~~, if any, of the outer periphery across the array of pixels in a row or a column direction from the first locations ~~(42)~~ which do not correspond to the first locations;

identifying third ~~(46,50)~~ and subsequent locations, if any, of the outer periphery across the array of pixels in a row or a column direction from the second ~~(44,48)~~ and subsequent locations which do not correspond to already identified locations; and

arranging the row and column driver circuit portions ~~(R,C)~~ alternately around the outer periphery with transitions between row and column driver circuit portions at the identified locations.

12. *(Original)* A method as claimed in claim 11, wherein a location of the outer periphery is considered to correspond to a first location if it is adjacent a first location and separated from the first location by a substantially linear portion of the outer shape along the tangent.

13. *(Currently Amended)* A method as claimed in ~~claim 11 or 12~~ claim 11, wherein a row or column driver circuit portion is provided between each adjacent pair of identified locations.

14. *(Currently Amended)* A method as claimed in ~~claims 11 or 12~~ claim 11, wherein at least one gap is provided in the row and column driver circuit portions around the periphery of the array of pixels, the gap comprising a region of the outer periphery which is between first locations ~~(80, 82)~~ which are points of inflection.

15. *(Currently Amended)* A method as claimed in ~~claims 11 or 12~~ claim 11, wherein at least one gap ~~(70a, 70b)~~ is provided in the row and column driver circuit portions around the periphery of the array of pixels, the gap comprising a region of the outer periphery which is substantially linear and parallel to the row or column conductor lines.

16. *(Currently Amended)* A method as claimed in ~~any one of claims 11 to 15~~ claim 11, wherein the step of arranging the row and column driver circuit portions

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comprises arranging at least three row driver circuit portions and at least three column driver circuit portions.